PHASE SHIFTER CONTROL VOLTAGE DISTRIBUTION IN A PHASED ARRAY UTILIZING VOLTAGE-PROPORTIONAL PHASE SHIFT DEVICES

ABSTRACT

A phase shift control voltage distribution scheme for a phased array utilizes analog voltage-proportional phase shift devices, to which respective input signals are supplied and from which phase-shifted output signals are produced. A voltage supply unit has a plurality of voltage outputs supplying respectively different analog voltages. A switch network coupled between voltage outputs of the multiple voltage supply unit and the voltage control inputs of the plurality of voltage-controlled phase shift elements, is operative to selectively couple any of the different voltages supplied by the multiple voltage supply unit to the voltage control inputs of any of the voltage-controlled phase shift elements.